

Use an em dash first...

Minion Pro font:

Cat—Dog ← use an em dash first
A–B ← the en dash is messed up!
1–2

Palatino:

Cat—Dog] use an em dash first [oh oh, what's up with the arrow?!]
A–B] the en dash is fine
1–2—

Times New Roman:

Cat—Dog ← use an em dash first
A–B ← the en dash is fine
1–2