$$(X \otimes Y) \otimes Z \xrightarrow{\text{br}_{X,Y} \otimes \text{id}_Z} (Y \otimes X) \otimes Z \xrightarrow{\text{as}_{Y,X,Z}} Y \otimes (X \otimes Z)$$

$$\text{as}_{X,Y,Z} \downarrow \qquad\qquad\qquad\qquad\qquad\qquad\qquad \downarrow \text{id}_Y \otimes \text{br}_{X,Z}$$

$$X \otimes (Y \otimes Z) \xrightarrow{\text{br}_{X,Y \otimes Z}} (Y \otimes Z) \otimes X \xrightarrow{\text{as}_{Y,Z,X}} Y \otimes (Z \otimes X)$$